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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.
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09/449,611 11/30/99 SHIMURA

K Q56989

MMC1/0508

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WASHINGTON DC 20037

EXAMINER

PARKER, K

ART UNIT	PAPER NUMBER
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2871

DATE MAILED:

05/08/01

Please find below and/or attached an Office communication concerning this application or proceeding.

Commissioner of Patents and Trademarks

Office Action Summary

Application No. 09/449,611	Applicant(s) Shimura
Examiner Kenneth Parker	Art Unit 2871

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

1) Responsive to communication(s) filed on Feb 23, 2001

2a) This action is FINAL. 2b) This action is non-final.

3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11; 453 O.G. 213.

Disposition of Claims

4) Claim(s) 15-25 is/are pending in the application.

4a) Of the above, claim(s) _____ is/are withdrawn from consideration.

5) Claim(s) _____ is/are allowed.

6) Claim(s) 15-25 is/are rejected.

7) Claim(s) _____ is/are objected to.

8) Claims _____ are subject to restriction and/or election requirement.

Application Papers

9) The specification is objected to by the Examiner.

10) The drawing(s) filed on _____ is/are objected to by the Examiner.

11) The proposed drawing correction filed on _____ is: a) approved b) disapproved.

12) The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. § 119

13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d).

a) All b) Some* c) None of:

1. Certified copies of the priority documents have been received.

2. Certified copies of the priority documents have been received in Application No. 08/941,391

3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

*See the attached detailed Office action for a list of the certified copies not received.

14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e).

Attachment(s)

15) Notice of References Cited (PTO-892)

18) Interview Summary (PTO-413) Paper No(s). _____

16) Notice of Draftsperson's Patent Drawing Review (PTO-948)

19) Notice of Informal Patent Application (PTO-152)

17) Information Disclosure Statement(s) (PTO-1449) Paper No(s). _____

20) Other: _____

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DETAILED ACTION

Claim Rejections - 35 USC § 102

- 1. Claim 14-17-20, 22, 24 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Parulskie et al, U.S. Patent # 5,828,406.**

This reference discloses LCD's having pixels with widths 2/3rds of their heights (column 1, lines 60-65). Parulski discusses the remapping of the pixels (see abstract associated figure). Therefore, these claims are anticipated by this reference.

- 2. Claims 14-15, 17-24 is rejected under 35 U.S.C. 102(e) as being clearly anticipated by Ishimoto et al, U.S. Patent # 5,594,564.**

This reference discloses pixels with a 30 to 1 height to width (see abstract, title and associated figures). Therefore, these claims are anticipated by this reference.

- 3. Claim 14-15, 17-24 are rejected under 35 U.S.C. 102(e) as being clearly anticipated by Aoki et al, U.S. Patent # 4,654,117.**

Aoki discloses a liquid crystal device in which three pixel electrodes with a width of approximately 1/3 of the high are used side by side to create a full color display. As discussed in the rejection under 112 above, it is unclear what meaning applicant is intending to use for pixel, so

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the common usage established in the LCD technology of a pixel being defined by the pixel electrode. Therefore, the disclosures of figures 6 and 7 anticipate the claimed invention.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103© and potential 35 U.S.C. 102(f) or (g) prior art under 35 U.S.C. 103(a).

4. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Parulskie et al, U.S. Patent # 5,828,406.

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Lacking form the disclosure is the claimed brightness level. **It was well known that higher brightness was more desirable for the end user, and therefore it would have been obvious, to employ a high brightness light source producing a high brightness image as was well known in the industry as desirable.

5. Claims 16 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ishimoto et al, U.S. Patent # 5,594,564.

Lacking form the disclosure is the claimed brightness level. It was well known that higher brightness was more desirable for the end user, and therefore it would have been obvious, to employ a high brightness light source producing a high brightness image as was well known in the industry as desirable.

Additionally, the rescaling of images and the conversion of a black and white image to be displayed in a color display were **conventionally employed in computers which drove LCDs, and well known for enabling the viewing of arbitrary images, and therefore obvious for the conventional nature as well as the advantage of enabling the viewing of arbitrary images.

6. Claims 16 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Aoki et al, U.S. Patent # 4,654,117.

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Lacking form the disclosure is the claimed brightness level. It was well known that higher brightness was more desirable for the end user, and therefore it would have been obvious, to employ a high brightness light source producing a high brightness image as was well known in the industry as desirable.

Additionally, the rescaling of images and the conversion of a black and white image to be displayed in a color display were **conventionally employed in computers which drove LCDs, and well known for enabling the viewing of arbitrary images, and therefore obvious for the conventional nature as well as the advantage of enabling the viewing of arbitrary images.

***Any item marked with (**) is given as official notice.*

Note: Any assertions that an element, practice or relationship was conventional has the incorporates the motivations of the benefits of having established supply chains, well understood behavior and manufacturing methodologies.

Response to Arguments

Applicant's arguments filed have been fully considered but they are not persuasive. Applicant argues that the references are silent on the density and only refer to pixel size. As pixel size is the inverse of density (larger size=smaller density), these refer to the same exact feature.

Applicant's confirmation of the meaning used for pixel electrode is acknowledged, and the 112 rejection has been dropped. However, this meaning implies that the language includes side by side color triads, which give a 3:1 ratio even for square pixels, and of which there are dozens or hundreds of references which be 102 references (the reference applied being just one example).

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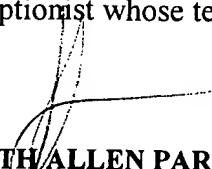
Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kenneth Parker whose telephone number is (703) 305-6202. The fax phone number for this Group is (703) 308-7722. Any inquiry of a general nature or relating to the status of this application or preceding should be directed to the Group receptionist whose telephone number is (703) 308-0956.

May 7, 2001


**KENNETH ALLEN PARKER
PRIMARY PATENT EXAMINER
GAU 2871**